

10/23/01
JC956 U.S. PTO
Barcode

12-05-01
A

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

10/001676
JC956 U.S. PTO
Barcode
10/23/01

NEW APPLICATION TRANSMITTAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): YEONG-TAEG KIM AND SHIN-HAENG KIM

WARNING:

37 CFR § 1.41 (a)(1) points out:

*"(a) A Patent is applied for in the name or names of the actual inventor or inventors.
(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53 (d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53 (b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."*

For (title): METHOD OF DETECTING MOTION IN AN INTERLACED VIDEO SEQUENCE BASED ON LOGICAL OPERATION ON LINEARLY SCALED MOTION INFORMATION AND MOTION DETECTION APPARATUS

1. Type of Application

This new application is for a(n)

(check one applicable item below)

Original (nonprovisional)

Design

Plant

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.

WARNING: *Do not use this transmittal for the filing of a provisional application.*

NOTE: If one of the following 3 items apply then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

- Divisional
- Continuation
- Continuation-in-part (C-I-P)

2. Benefit of Prior U.S. Application(s)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 CFR § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

WARNING:

If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b)). For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20, 195, at 20,205.

WARNING:

When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 CFR § 1.78(a)(3).

The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

A. Required For Filing Date Under 37 § CFR 1.53(b) (Regular) or 37 § CFR 1.153 (Design) Application

Pages of Specification	<u>23</u>
Pages of Claims	<u>10</u>
Sheets of Drawing	<u>8</u>

WARNING:

DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments or proposed then-new 37 CFR 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page ..."37 CFR 1.84 (c)).

(complete the following, if applicable)

The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 CFR 1.84(b).
 formal
 informal

B. Other Papers Enclosed X

Pages of declaration and power of attorney 2

Pages of abstract 1

Assignment and Cover Sheet 4

Other _____

4. Additional papers enclosed

Amendment to claims

Cancel in this applications claims _____ before calculating the filing fee.
(At least one original independent claim must be retained for filing purposes.)

Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)

Preliminary Amendment

Information Disclosure Statement (37 CFR 1.98)

Form PTO-1449 (PTO/SB/08A and 08B)

Citations

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

Declaration of Biological Deposit

Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

Authorization of Attorney(s) to Accept and Follow Instructions from Representative

Request For Nonpublication of Application Under 35 U.S.C. §122(b), 37 C.F.R. §1.213(a)

Special Comments

Other _____

5. Declaration or oath (including power of attorney)

NOTE: A newly executed declaration is not required in a continuation or divisional application provided that the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under § 1.47, then a copy of that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 CFR §§ 1.63(d) (1)-(3).

NOTE: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 CFR § 1.63(a)(1)-(4).

Enclosed,

unexecuted.

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

executed by (*check all applicable boxes*)

inventor(s).

legal representative of inventor(s). 37 CFR 1.42 or 1.43

joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

this is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached.

See item 13 below for fee.

Not Enclosed.

NOTE: Where the filing is a completion in the U.S. of an International Application or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

Application is made by a person authorized under 37 CFR 1.41(c) on behalf of *all* the above named inventor(s).

(The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).

Showing that the filing is authorized.

(not required unless called into question. 37 CFR 1.41(d)).

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

6. Inventorship Statement

WARNING:

If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.

The inventorship for all the claims in this application are:

The same.

or

Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,

is submitted.

will be submitted.

7. Publication/Nonpublication

Request is being submitted with this application on filing that the application be:

published. Publication fee is enclosed.

not published.

A Request For Nonpublication of Application Under 35 U.S.C. §122(b), 37 C.F.R. §1.213(a) is submitted.

8. Language

NOTE: An application including a signed oath or declaration may be filed in a language other than English. An English translation of the non-English language application and the processing fee of \$130.00 required by 37 CFR 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 CFR 1.52(d).

English

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

Non-English

The attached translation includes a statement translation and is accurate. 37 CFR 1.52(d).

9. Assignment

An assignment of the invention to Samsung Electronics Co., Ltd.

is attached. A separate "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or FORM TO 1595 is also attached.

will follow.

NOTE: "If an assignment is submitted with a new application, send two separate letters - one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING:

A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

10. Certified Copy

Certified copy(ies) of application(s):

Country Appln. No. Filed

*

Country Appln. No. Filed

*

Country Appln. No. Filed

*

from which priority is claimed

is/(are) attached

will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 CFR 1.55(a) and 1.63.

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

11. Fee Calculation (37 CFR 1.16)

A.

Regular Application

CLAIMS AS FILED

	Number Filed		Number Extra		Rate	Basic Fee 37 CFR 1.16(a)
Total Claims (37 CFR 1.16(c))	22	-20 =	2	X	\$ 18.00	\$ <u>740.00</u>
Independent Claims (37 CFR 1.16(b))	4	-3 =	1	X	\$ 84.00	\$ <u>84.00</u>
Multiple dependent claim(s), if any (37 CFR 1.16(d))		+			\$270.00	\$ _____

Amendment canceling extra claims enclosed.

Amendment deleting multiple dependencies enclosed.

Fee for extra claims is not being paid at this time.

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims canceled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 CFR 1.16(d).

Filing Fee Calculation \$ 860.00

B.

Design Application

(\$430.00—37 CFR 1.16(f))

Filing Fee Calculation \$ _____

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

C.

Plant Application
(\$480.00—37 CFR 1.16(g))

Filing Fee Calculation

\$ _____

12 Small Entity Statement(s)

Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.

WARNING:

"Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53 (d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120,121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 CFR §1.28(a)(2).

(complete the following, if applicable)

Status as a small entity was claimed in prior application

_____ / _____, filed on _____, from which benefit is
being claimed for this application under:

35 U.S.C. 119(e),
 120,
 121,
 365(c),

and which status as a small entity is still proper and desired.

A copy of the statement in the prior application is included.

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

Filing Fee Calculation (50% of A, B or C above)

\$ _____

NOTE: Any excess of the full fee paid will be refunded if small entity status is established and a refund request are filed within 2 months of the date of timely payment of a full fee. The two-month period is not extendable under § 1.136. 37 CFR 1.28(a).

13. Request for International-Type Search (37 CFR 1.104(d))

(complete, if applicable)

[] Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

14. Fee Payment Being Made At This Time

[] Not Enclosed.

[] No filing fee is to be paid at this time.

(This and the surcharge required by 37 CFR 1.16(e) can be paid subsequently.)

[X] Enclosed

[X] Filing fee	\$ 860.00
[X] Recording assignment (\$40.00; 37 CFR 1.21(h)) (See attached COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION)	\$ 40.00
[X] Publication fee (\$300.00, 37 C.F.R. 1.18(d))	\$ 300.00
[] Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00; 37 CFR 1.47 and 1.17(i))	\$ _____
[] For processing an application with a specification in a non-English language. (\$130.00; 37 CFR 1.52(d) and 1.17(k))	\$ _____
[] Processing and retention fee (\$130.00; 37 CFR 1.53(d) and 1.21(l))	\$ _____

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

Fee for international-type search report
(\$40.00; 37 CFR 1.21(e)) \$ _____

NOTE: 37 CFR 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 CFR 1.53(f) and this, as well as the changes to 37 CFR 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(l) must be paid within 1 year from notification under § 53(f).

Total fees enclosed \$ 1200.00

15. Method of Payment of Fees

Check in the amount of \$1,200.00
 Charge Account No. 19-1995 in the amount of \$ _____. A duplicate of this transmittal is attached.

NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).

16. Authorization to Charge Additional Fees

WARNING:

If no fees are to be paid on filing, the following items should not be completed.

WARNING:

Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 19-1995.

37 CFR 1.16(a), (f) or (g) (filing fees)

37 CFR 1.16(b), (c) and (d) (presentation of extra claims)

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims canceled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

- 37 CFR 1.16(e), (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
- 37 CFR §§1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).
- 37 CFR 1.17(a)(1)-(5) (application processing fees)

NOTE: "... A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 CFR § 1.136(a)(3).

- 37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311 (b).

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).

NOTE: 37 CFR 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application...prior to paying, or at the time of paying...the issue fee..." From the wording of 37 CFR 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other than a small entity"; and (b) no notification is required if the change is to another small entity.

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

17. Instructions As To Overpayment

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 CFR § 1.26(a).

Credit Account No. 19-1995

Refund

SIGNATURE OF PRACTITIONER

Reg. No. 33,783

Tel. No. (310) 789-3200

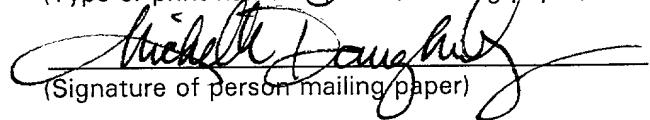
SIGNATURE OF ATTORNEY

Kenneth L. Sherman
SHERMAN & SHERMAN
2029 Century Park East
Seventeenth Floor
Los Angeles, California 90067

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 10-22-01 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EESD6243636US addressed to the: Assistant Commissioner for Patents, Washington, D. C. 20231.

Michelle Daugherty
(Type or print name of person mailing paper)

(Signature of person mailing paper)

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight than can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

PATENT APPLICATION
SHERMAN & SHERMAN REF. NO.: SAM2.0002

Incorporation by reference of added pages

(Check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED).

Plus Added Pages for New Application Transmittal Where Benefit Of Prior U.S. Application(s) Claimed

Number of pages added _____ 8 _____

Plus Added Pages for Papers Referred To In Item 4 Above

Number of pages added _____

Plus Added Pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.

Number of pages added _____

Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added _____

Statement Where No Further Pages Added

(If no further pages form a part of this transmittal, then end this transmittal with this page and check the following item)

This transmittal ends with this page.

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

NOTE: See 37 C.F.R. § 1.78 .

17. Relate Back

WARNING:

If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c) , the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c) . (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b) .) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

Amend the specification by inserting, before the first line, the following sentence:

A. 35 U.S.C. § 119(e)

NOTE: ``Any nonprovisional application claiming the benefit of one or more prior filed copending provisional applications must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior provisional application, identifying it as a provisional application, and including the provisional application number (consisting of series code and serial number).'' 37 C.F.R. § 1.78(a)(4).

``This application claims the benefit of U.S. Provisional Application(s) No(s).:

APPLICATION NO(S):	FILING DATE
60/257,338	December 20, 2000
60/257,365	December 20, 2000
60/273,100	March 2, 2001

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

B. 35 U.S.C. §§ 120, 121 and 365(c)

NOTE: ``Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application claiming the benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. ... Cross-references to other related applications may be made when appropriate." (See § 1.14(a)). 37 C.F.R. § 1.78(a)(2).

``This application is a

continuation

continuation-in-part

divisional

of copending application(s)

Application No. _____ filed on _____

International Application _____ filed on _____ and
which designated the U.S."

NOTE: The proper reference to a prior filed PCT application that entered the U.S. national phase is the U.S. serial number and the filing date of the PCT application that designated the U.S.

NOTE: (1) Where the application being transmitted adds subject matter to the International Application, then the filing can be as a continuation-in-part or (2) if it is desired to do so for other reasons then the filing can be as a continuation.

NOTE: The deadline for entering the national phase in the U.S. for an international application was clarified in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as follows:

``The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of § 1.494 and paragraph (i) of § 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."

``The nonprovisional application designated above, namely application _____ / _____, filed _____, claims the benefit of U.S. Provisional Application(s) No(s).:

APPLICATION NO(S).: FILING DATE

_____ / _____ "

_____ / _____ "

_____ / _____ "

Where more than one reference is made above, please combine all references into one sentence.

18. Relate Back--35 U.S.C. § 119 Priority Claim for Prior Application

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

Country Appln. No. Filed on

The certified copy(ies) has (have)

been filed on _____, in prior application 0 / _____, which was filed on _____.

is (are) attached.

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

WARNING:

The certified copy of the priority application that may have been communicated to the PTO by the International Bureau may not be relied on without any need to file a certified copy of the priority application in the continuing application. This is so because the certified copy of the priority application communicated by the International Bureau is placed in a folder and is not assigned a U.S. serial number unless the national stage is entered. Such folders are disposed of if the national stage is not entered. Therefore, such certified copies may not be available if needed later in the prosecution of a continuing application. An alternative would be to physically remove the priority documents from the folders and transfer them to the continuing application. The resources required to request transfer, retrieve the folders, make suitable record notations, transfer the certified copies, enter and make a record of such copies in the Continuing Application are substantial. Accordingly, the priority documents in folders of international applications that have not entered the national stage may not be relied on. Notice of April 28, 1987 (1079 O.G. 32 to 46).

19. Maintenance of Copendency of Prior Application

NOTE: The PTO finds it useful if a copy of the petition filed in the prior application extending the term for response is filed with the papers constituting the filing of the continuation application. Notice of November 5, 1985 (1060 O.G. 27).

A. Extension of time in prior application
(This item must be completed and the papers filed in the prior application, if the period set in the prior application has run.)

A petition, fee and response extends the term in the pending prior application until _____.

A copy of the petition filed in prior application is attached.

B.

Conditional Petition for Extension of Time in Prior Application
(complete this item, if previous item not applicable)

A conditional petition for extension of time is being filed in the pending prior application.

A copy of the conditional petition filed in the prior application is attached.

***ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED***

20. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed
(complete applicable item (a), (b) and/or (c) below)

(a) This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are

the same.

less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:

(type name(s) of inventor(s) to be deleted)

(b) This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application, the inventor(s) in this application are

the same.

the following additional inventor(s) have been added:

(type name(s) of inventor(s) to be added)

(c) The inventorship for all the claims in this application are

the same.

not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made

is submitted.

will be submitted.

2025 RELEASE UNDER E.O. 14176

***ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED***

21. Abandonment of Prior Application (if applicable)

Please abandon the prior application at a time while the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.

NOTE: According to the Notice of May 13, 1983 (103, TMOG 6-7), the filing of a continuation or continuation-in-part application is a proper response with respect to a petition for extension of time or a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.

22. Petition for Suspension of Prosecution for the Time Necessary to File an Amendment

WARNING:

``The claims of a new application may be finally rejected in the first Office action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." M.P.E.P., § 706.07(b) , 6th ed., rev. 2.

NOTE: Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.

(check the next item, if applicable)

There is provided herewith a Petition To Suspend Prosecution for the Time Necessary to File An Amendment (New Application Filed Concurrently)

23. Small Entity (37 C.F.R. § 1.28(a))

Applicant has established small entity status by the filing of a statement in parent application / _____ on _____ .

A copy of the statement previously filed is included.

WARNING:

See 37 C.F.R. § 1.28(a) .

***ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED***

WARNING:

``Small entity status must not be established when the person or persons signing the ... statement can unequivocally make the required self-certification.'' M.P.E.P., § 509.03, 6th ed., rev. 2, July 1996 (emphasis added).

24. NOTIFICATION IN PARENT APPLICATION OF THIS FILING

A notification of the filing of this

(check one of the following)

continuation

continuation-in-part

divisional

is being filed in the parent application, from which this application claims priority under 35 U.S.C. § 120 .

100016526-10023004

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

Added page _____

NOTE: The Notice of August 1, 1986, 1069 O.G. 40, states:

``NEW APPLICATIONS--Payment of Processing and Retention Fees-- An application, which has become abandoned pursuant to 37 C.F.R. § 1.53(d) for failure to pay the filing fee, will be disposed of unless the processing and retention fee set forth in § 1.21(l) is paid within the 1-year period referred to in § 1.53(d) . Moreover, the processing and retention fee must be timely paid in order to obtain certified copies of the application (e.g., for convention priority purposes) or to establish a later filed application the filing date benefit of an earlier copending application under 37 USC 120 and 37 C.F.R. § 1.78(a)(3) . Therefore, an application which has become abandoned for the reasons set forth above should be immediately reviewed in order to timely determine the advisability of submitting a processing and retention fee payment.

``Direct any questions regarding this helpful hint to:

``Al Lawrence Smith
``Director, Group 350
``(703) 557-3414

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

I hereby certify that this paper of fee is being deposited with the United States Postal Service on this date: 10-22-01, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number FES06243205 addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

Michelle Daugherty
(Type or print name of person mailing paper)


(Signature of person mailing paper)

which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

I, SAID ASSIGNOR(S), hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I, SAID, ASSIGNOR(S), hereby covenant that I have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND I, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that I will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives,

or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Assignor's signature: Shin-Haeng Kim
Yeong-Taeg Kim

Dated: 10/15/2001

Citizenship: Korean

Assignor's signature: Shin Haeng Kim
Shin-Haeng Kim

Dated: 10/12. 2001

Citizenship: Korean

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

I hereby certify that this paper of fee is being deposited with the United States Postal Service on this date: 10.22.01, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EES06293636US addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231

Michelle Daugherty
(Type or print name of person mailing paper)

Michelle Daugherty
(Signature of person mailing paper)